

Kaveh Momeni

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Objective

Transitioning from Project Management, I am keen to immerse myself in the role of a Machine Learning Engineer. Eager to expand my expertise in AI, I am prepared to construct practical machine learning models that drive results. With a realistic and grounded approach, my objective is to continuously commit, learn, develop, and make substantial contributions in this fascinating field of technology.

Experience

Smart HouseHunter: Web Scraping C2C Marketplaces & Leveraging Machine Learning & NLP For Accurate Real Estate Price Prediction

ML Engineer & Developer

Chaharsotoon Engineering Company, Jan 2023 - Apr 2023

Developed a real estate price prediction tool that scrapes C2C e-commerce marketplaces for housing data, utilizes machine learning algorithms for feature extraction, and implements NLP & NER techniques to analyze property specifications. The tool effectively predicts property prices, streamlining the decision-making process for potential homebuyers.

ConstructPro: Customized Jira-Based Project Management Solution For Streamlined Construction Processes

Product Manager

Chaharsotoon Engineering Company, Dec 2022 - Sep 2022

Designed and implemented a tailored Jira-based project management system to streamline construction project processes. The solution efficiently manages tasks, tracks progress, and fosters collaboration among stakeholders, resulting in improved communication and reduced project timelines.

Tehran MediAll: One-Stop Superapp For Comprehensive Healthcare Services & Information

Product Manager

Tehranlab Healthcare Group of Companies, June 2020 - Feb 2021

Developed a comprehensive superapp to facilitate seamless access to healthcare services, including doctor appointment scheduling, prescription uploading and medication delivery, medical knowledge repository, and on-site COVID test ordering. The platform simplifies medical processes and empowers users to manage their health with ease. Based on microsystem architecture, various technologies suited for mobile & webapps were utilized.

Kongereh: Development & Launch of Online Marketplace For Home ImprovementS & Interior Design Services

Product Lead

Kongereh, Aug 2018 - Nov 2019

Successfully drove the development and execution of kongereh.com, an online marketplace platform tailored for the trade of interior design elements and building materials. I oversaw product strategy, coordinated cross-functional teams, and ensured seamless user experience, resulting in a thriving marketplace that connects buyers and sellers in the design and construction industries.

ArcaNet: Integrated ERP Solution & Custom Web Portals For Liokian Holding Company

Project Manager

Liokian Holding, Aug 2018 – Sep 2018

Spearheaded the development of an integrated ERP system and custom web portals tailored to meet the diverse needs of a holding company's subsidiaries. The comprehensive solution streamlined operations, enhanced communication, and fostered collaboration across various business units, driving overall efficiency and productivity.

ArcaSazeh SteelPro: Advanced Manufacturing Process & Production Line Management Solution For Steel Structure Factories

Project Manager

Arca Sazeh / Subsidiary of Liokian Holding, Dec 2017 – Jan 2018

Led the development of an innovative software solution designed to monitor and manage the manufacturing processes and production lines within a steel structure factory. The system enabled real-time tracking, data analysis, and optimization of production workflows, resulting in increased efficiency and overall output.

PMP Master: Advanced Test Simulation System For Pmp Exam Preparation

Project Manager

Pishro Midiriat Piran Consulting Company, Jun 2014 – Sep 2014

Led the development of an advanced test exam simulation system based on open-source credited LMS softwares, designed to enhance exam preparation. The platform offers a customizable, interactive learning experience through realistic exam simulations, allowing users to identify strengths and areas for improvement, leading to better exam performance.

Development of Comprehensive Web Portal For Citizen Engagement & Municipal Communication Management

Web Developer

Municipality of Shahmirzad, June 2008 – Aug 2008

Key role in create, develop & running a comprehensive web portal designed to enhance citizen engagement and streamline communication with the municipal government. The platform facilitated efficient management of service requests, provided access to essential city information, and fostered transparent dialogue between citizens and local authorities.

Centralized Integrated Control Software For Hormozgan High-Voltage Substations & Dipatching Centers

Software Developer

ITA Co, Nov 2004 – Jan 2006

Contributed to the developement and implementation of a centralized control & binding system for managing and monitoring high-voltage substations in Hormozgan. The integrated solution facilitated efficient dispatching, real-time data analysis, and seamless communication between substations, ensuring optimal power distribution and grid stability.

// Other Projects

Participated in more than sixty projects in other fields e.g. Construction, Marketing, Manufacturing & ... as a member of the project team or the project manager.

Education

Bachelors Degree in Civil Engineering

Islamic Azad University: South Tehran, 2010 – 2013

Bootcamps & Courses

Data Science Professional Bootcamp

Aanco Academy, July 2022 – Oct 2022

A 12-week, intensive program covering programming, statistics, machine learning, data visualization, deep learning, Neural Networks, GANs, RNNs, Data Augmentation & ... to gain hands-on experience through real-world projects, and acquire essential skills to launch a successful data science career.

Machine Learning A-Z™: Hands-On Python & R In Data Science

Udemy Online Platform, Oct 2022 – Nov 2022

Objectives: Master Machine Learning on Python & R / Have a great intuition of many Machine Learning models / Make accurate predictions / Make powerful analysis / Make robust Machine Learning models / Create strong added value to business / Use Machine Learning for personal purpose / Handle specific topics like Reinforcement Learning, NLP and Deep Learning / Handle advanced techniques like Dimensionality Reduction / Know which Machine Learning model to choose for each type of problem / Build an army of powerful Machine Learning models and know how to combine them to solve any problem.

Professional Project-Oriented Course In Machine Learning

Quera College Platform, Jan 2023 – Mar 2023

Syllabus: Machine Learning Project Management / Data Analysis & Data Preprocessing / Feature Engineering / Regression / Classification / Ensemble Learning / Neural Networks / Unsupervised Learning + Practical Real World Projects

Deep Learning Specilization By DeepLearning.AI

Coursera Platform, Mar 2023 – Jun 2023

- *Studied foundational principles of neural networks and deep learning*
- *Trained and implemented fully connected deep neural networks*
- *Utilized standard techniques for neural network optimization*
- *Implemented neural networks in TensorFlow*
- *Diagnosed errors and formulated error reduction strategies in ML systems*
- *Built convolutional neural networks for visual detection & recognition tasks*
- *Applied neural style transfer creatively in various data types*
- *Constructed and trained recurrent neural networks, including GRUs & LSTMs*
- *Gained practical experience in character-level language modeling & NLP tasks*
- *Used HuggingFace tokenizers & transformer models on NER and Q&A tasks.*

Natural Language Specialization By DeepLearning.AI

Coursera Platform, Mar 2023 – Jun 2023

- *Conducted sentiment analysis of tweets using logistic regression and naïve Bayes*
- *Employed vector space models for word relationship discovery*
- *Developed English to French translation algorithm using pre-computed word embeddings*
- *Created an auto-correct algorithm using minimum edit distance & dynamic programming*
- *Implemented Word2Vec model using a neural network for word embeddings computation*
- *Trained a neural network with GLoVe word embeddings for sentiment analysis*
- *Trained an LSTM-based recurrent neural network for Named Entity Recognition (NER)*
- *Translated English sentences into German using an encoder-decoder attention model*
- *Utilized T5 and BERT models for question-answering tasks*
- *Constructed a chatbot using a Reformer model*

Mathematics For Machine Learning And Data Science Specialization By DeepLearning.Ai

Coursera Platform, Jun 2023 - Jul 2023

- *Linear Algebra Basics and Applications*
- *Matrix Manipulation and Linear Transformations*
- *In-depth Understanding of Determinants and Eigenvectors*
- *Calculus Basics and Optimization Techniques*
- *Gradient Descent and Optimization in Neural Networks*
- *Probability Concepts and Random Variables*
- *Statistics for Data Description and Inference*
- *Confidence Intervals and Hypothesis Testing*

Google Cloud - Machine Learning Professional Engineer Learning Path

Google Cloud Platform, Jun 2023 - Now, 72% Completion

1. *Google Cloud Big Data and Machine Learning Fundamentals*
2. *How Google Does Machine Learning*
3. *Launching into Machine Learning*
4. *TensorFlow on Google Cloud*
5. *Google Cloud Big Data and Machine Learning Fundamentals*
6. *Feature Engineering*
7. *Machine Learning in the Enterprise*
8. *Production Machine Learning Systems*
9. *Computer Vision Fundamentals with Google Cloud*

DeepLearning.Ai : Short Courses

- *Building Systems with the ChatGPT API*
- *ChatGPT Prompt Engineering for Developers*
- *LangChain for LLM Application Development*
- *Building Generative AI Applications with Gradio*
- *LangChain: Chat with Your Data*
- *How Diffusion Models Work*

Certifications

Project Management Professional: PMP®

PMI (Project Management Institute), PMP® Certified No. 1943115

Python Programming: Intermediate

Maktabkhooneh, Credential ID: MK-IHMYIR, Score: 99.2/100

Python Programming: Advanced

Maktabkhooneh, Credential ID: MK-7G69WF, Score: 97.2/100

Professional Project-Oriented Advanced Course In Machine Learning

Quera College, Credential ID: LPUTBECT, Score: Perfect

Neural Networks & Deep Learning By DeepLearning.Ai

Coursera, Credential ID: KEJZWKHQRXWV, Score: 97.5/100

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization & Optimization By DeepLearning.Ai

Coursera, Credential ID: BBQM5RVR8B5J, Score: 98/100

Structuring Machine Learning Projects By DeepLearning.Ai

Coursera, Credential ID: ZEWWJ72CEWVX5, Score: 86.66/100

Convolutional Neural Networks By DeepLearning.AI

Coursera, Credential ID: LH6GXMVUSGHW, Score: 97/100

Sequence Models By DeepLearning.AI

Coursera, Credential ID: PTRTA3CNBXW3, Score: 96.5/100

Natural Language Processing With Classification & Vector Spaces By DeepLearning.AI

Coursera, Credential ID: 72SM3F9ELDR5, Score: 100/100

Natural Language Processing With Probabilistic Models By DeepLearning.AI

Coursera, Credential ID: JHFGZXNPP4U4, Score: 100/100

Natural Language Processing With Sequence Models By DeepLearning.AI

Coursera, Credential ID: N3E5NYA38DRH, Score: 100/100

Natural Language Processing With Attention Models By DeepLearning.AI

Coursera, Credential ID: N3E5NYA38DRH, Score: 100/100

Linear Algebra For Machine Learning And Data Science By DeepLearning.AI

Coursera, Credential ID: KSFFUPUTFL73, Score: 100/100

Calculus For Machine Learning And Data Science By DeepLearning.AI

Coursera, Credential ID: 6ACWPU2TPUKN, Score: 100/100

Probability & Statistics For Machine Learning & Data Science By DeepLearning.AI

Coursera, Credential ID: RVAZFWLSAPWE, Score: 96.9/100

Exploratory Data Analysis For Machine Learning With Honors By IBM

Coursera, Credential ID: 7MV255UEGVMA, Score: 95/100

Skills

Technical Skills:

- Programming languages: Python, C++, C#
- Machine Learning Libraries: Scikit-learn, TensorFlow, Keras & ...
- Data Visualization: Matplotlib, Seaborn, Plotly, Pandas Profiling, ...
- Data Manipulation: Pandas, NumPy, Scipy & ...
- Supervised Learning: Regression (Linear, Polynomial, Ridge, Lasso, ElasticNet), Classification (Logistic Regression, Decision Trees, Random Forest, SVM, Naive Bayes), and Ensemble techniques (Bagging, Boosting, Stacking)
- Unsupervised Learning: Clustering (K-Means, Hierarchical, DBSCAN), Dimensionality Reduction (PCA, t-SNE), and AssociationRules (Apriori, FP-Growth)
- Statistical Analysis: Hypothesis testing, A/B testing, Bayesian inference, & ...
- Deep Learning: CNNs (using architectures like ResNet, Inception, VGG), RNNs (including LSTM and GRU), Transformers (BERT, GPT, T5), and GANs
- Natural Language Processing (NLP): Text Mining, Language Modeling, Named Entity Recognition (NER), Sentiment Analysis, Text Classification, and Machine Translation & NLP models like BERT, GPT & T5 and Transformers
- Cloud Computing: Google Cloud Platform (GCE, GCS, BigQuery, AI Platform)

Project Management Skills:

- Agile Methodologies: Scrum, Kanban
- Project Management Tools: Jira, Trello, Asana, MS Project
- Risk Management & Mitigation
- Cross-Functional Team Coordination

- Resource Allocation & Management
- Budgeting & Financial Management
- Team Leadership & Motivation
- Stakeholder & Vendor Management
- Project Lifecycle Management

Soft Skills:

- Effective Communication
 - Critical Thinking
 - Problem-Solving
 - Teamwork & Collaboration
 - Adaptability
 - Active Listening
 - Ethical Awareness
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